

Title (en)

Apparatus and method for interconnecting isochronous systems over packet-switched networks

Title (de)

Vorrichtung und Verfahren zur Verbindung von isochronen Systemen über Paketvermittlungsnetze

Title (fr)

Appareil et procédé pour l'interconnexion de systèmes isochrones à travers de réseaux à commutation par paquets

Publication

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Application

EP 99104371 A 19990304

Priority

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Abstract (en)

A telecommunications system (18) is provided that includes a first controller (20) and a second controller (22) coupled using a packet-switched network (32). The controllers provide a low cost means of coupling isochronous telecommunication devices. The first controller (20) receives one or more isochronous input channels from a common control shelf (24), such as a private branch exchange (PBX), over a circuit-switched network (27). The first controller (20) encapsulates an isochronous frames from the common control shelf (27) into a data frame that is transferrable over the packet-switched network (32). The second controller (22) is configured to receive the data frame and extract the isochronous frame, which is then transmitted to a peripheral shelf (26), such as a line trunk unit (LTU), using an isochronous circuit-switched network (38). The controllers contain identical functionality, permitting bi-directional transmission of data between the common control and peripheral shelves. Each controller includes multiplex/de-multiplex functions normally associated with isochronous telephony, as well as a packetize/de-packetize functions for transferring data over the packet-switched network (32). The arrival rate of the data packets is used for synchronizing the two controllers. <IMAGE>

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